



Atmospheric Science Program

Functional and Scientific Categories

April 27, 2004

To facilitate the assignment of qualified reviewers to ASP proposals, and to assess programmatic balance during the relevancy review, we have developed a matrix of functional and scientific categories, and we are developing a database of potential reviewers. Proposers will be asked to indicate in their abstracts which functional and scientific categories they are proposing as their primary and (if applicable) secondary foci.

The following are not indications of relative priorities. Relative priorities can be found in the Draft Program Description under each functional category.

Functional Categories (Prefix):

- L** Focused laboratory experiments
- F** Field measurements
- M** Fundamental theoretical and process modeling
- I** Development of new instruments and methods to better measure the composition, optical, and cloud nucleating properties of atmospheric aerosols, in support of ASP laboratory experiments and field measurements

Science Categories (Suffix):

1. Source of particles and gaseous precursors
2. Transport and/or transformation of particles and gaseous precursors
 - a. Local scale, < 100 km
 - b. Regional and greater scales, > 100 km
3. Concentrations of gas-phase aerosol precursors
4. Aerosol characterization
 - a. Optical properties

- b. Size-distribution, number concentration
- c. Humidity effects
- d. CCN properties
- e. Single particle composition
- f. Physical and chemical characterization of carbonaceous particles
- 5. Transformations
 - a. Gas-phase transformations
 - b. Condensed-phase and surface transformations
 - c. Gas-to-particle conversion
 - d. New particle formation
 - e. Evolution of aerosol size and/or composition
 - f. Dynamics
 - g. Activation
 - h. Size distribution
 - i. Precipitation development
 - j. In-cloud and below-cloud scavenging
- 6. Atmospheric radiation
- 7. Other (specify)

Programmatic questions may be addressed to the Program Director, while questions pertaining to scientific scope may be addressed to either the Program Director or the Chief Scientist. We will try to provide answers in future FAQ's so that they are available to all interested parties. For this reason email is probably the best way to submit questions.

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